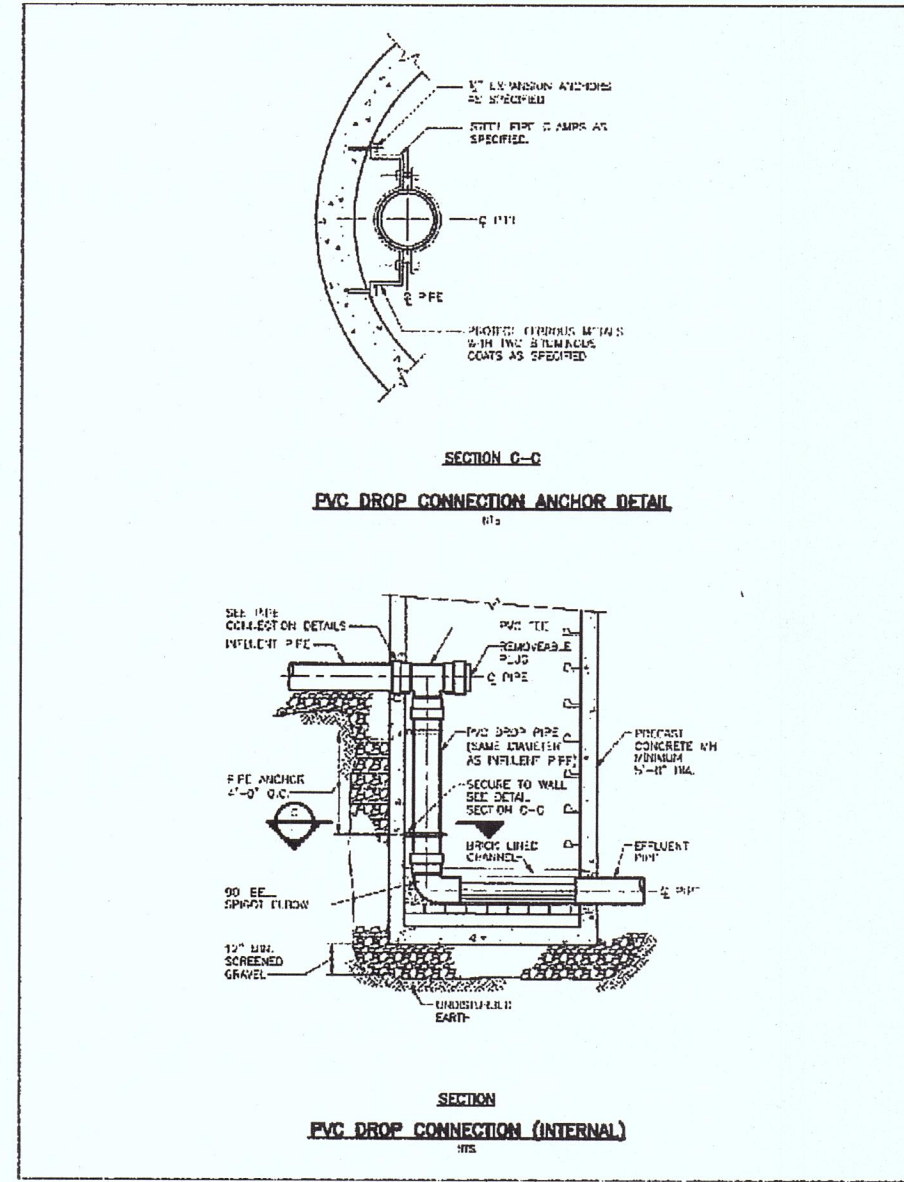


NOTES:

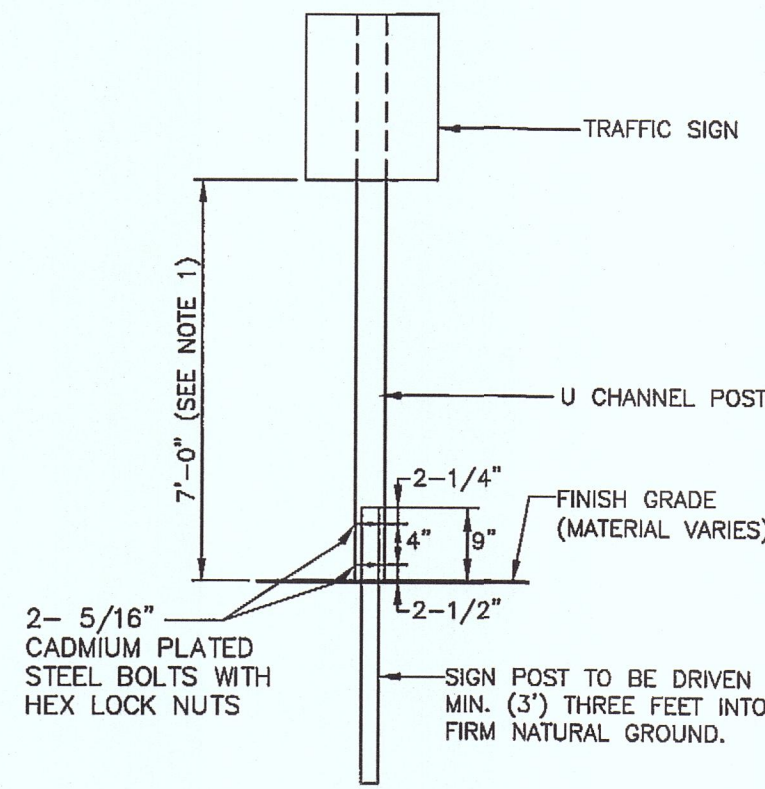
- 1) ALL SEWER APPURTENANCES SHALL BE CONSTRUCTED PER GRAFTON SEWER DEPARTMENT REGULATIONS AND SPECIFICATIONS.
- 2) ALL SEWER PIPES AND STRUCTURES SHALL BE TESTED PER GAN SEWER DEPARTMENT REQUIREMENTS AND ASSOCIATED FEES.



1 DROP CONNECTION DETAIL
SCALE: N.T.S.

NOTES:

1. SEE TRAFFIC CONTROL SCHEDULE FOR EXACT MOUNTING HEIGHT.
2. CHANNEL POST SECTIONS TO BE CONNECTED WITH AT LEAST TWO(2) APPROPRIATELY SIZED GALVANIZED BOLTS W/ LOCK WASHERS AND NUTS.



2 TYPICAL BREAKAWAY SIGN POST DETAIL
SCALE: N.T.S.

NOTES:

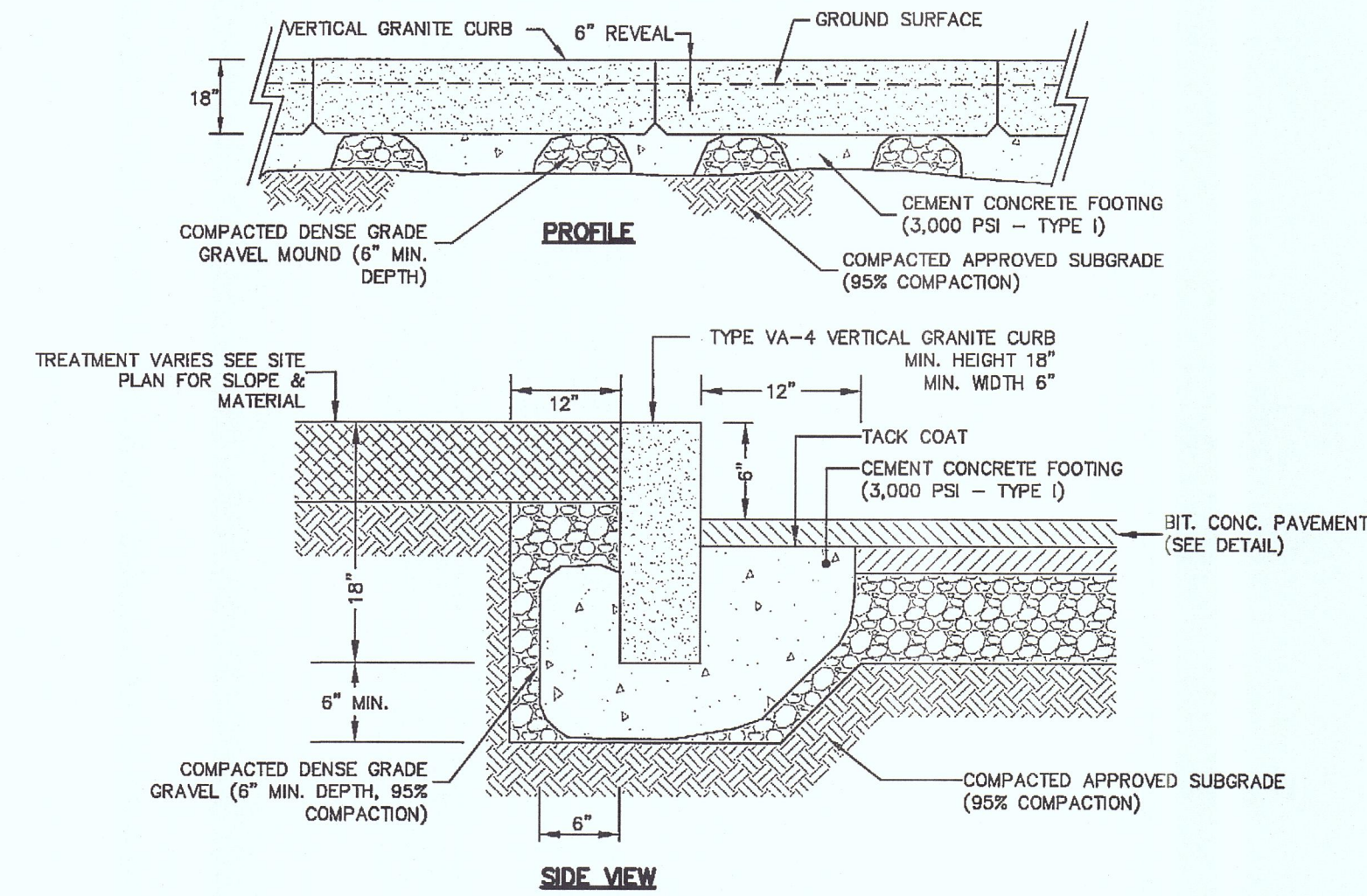
1. ALL SIGNS ARE REFLECTORIZED AND HAVE 7'-0" CHANNEL MOUNTING HEIGHT.
2. ALL REGULATORY SIGNS SHALL MEET THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

SIGN NO.	SIGN	SIZE AND COLOR
R1-1	STOP	30"x30"; WHITE ON RED
D-3	STREET NAME	6" X VARIES"; WHITE ON GREEN 3" MIN LETTERS
R1-2	YIELD	36"x36"x36"; RED ON WHITE
	NOT A THRU STREET	18"x24"; BLACK ON WHITE

3 TRAFFIC CONTROL SIGNAGE
SCALE: N.T.S.

NOTES:

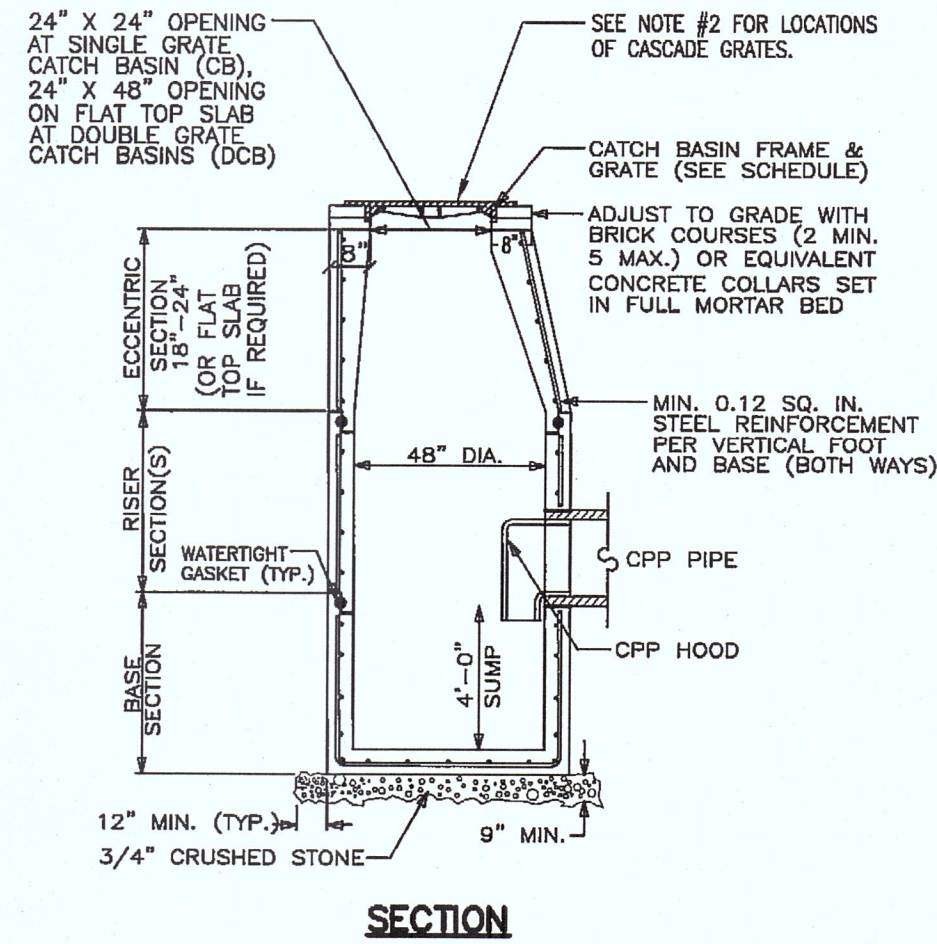
1. VERTICAL CURBING SHALL BE INSTALLED AS SHOWN ON THE PLAN.
2. PROVIDED EXPANSION JOINTS AT 5'-0" O.C.
3. CURB REPLACEMENT IN EXISTING PAVEMENT - SAWCUT EDGE MIN. 12" FROM CURB.



4 VERTICAL GRANITE CURB (VGC)
SCALE: N.T.S.

NOTES:

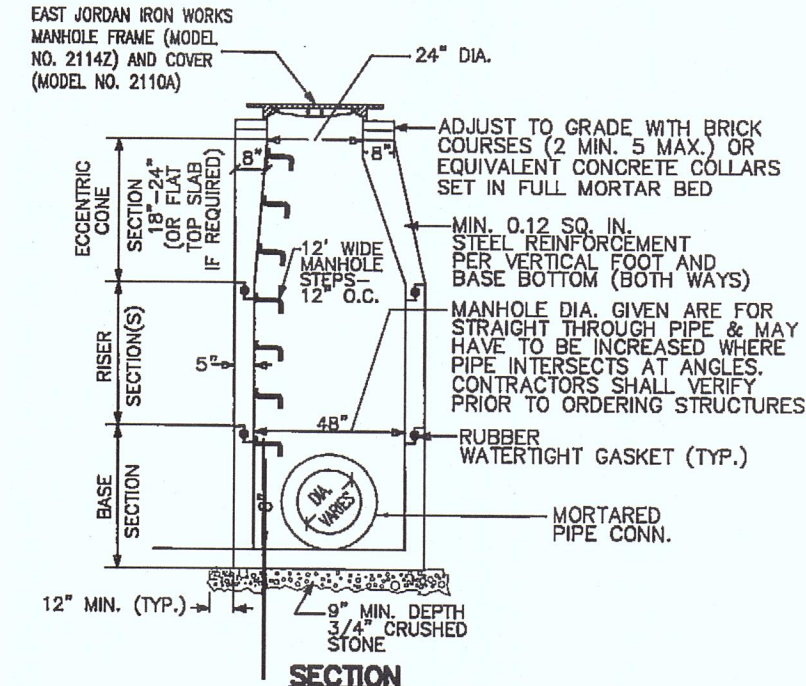
1. USE 3-FLANGE GRATES AT ALL CB STRUCTURES.
2. CB16 & CB17 SHALL USE CASCADE GRATES.
3. SUBMIT SHOP DRAWINGS FOR APPROVAL.
4. REINFORCED STEEL CONFORMS TO LATEST A185 SPEC. 0.12 SQ. IN./LINEAL FT. (0.15 SQ. IN. FOR 60" DIA) AND BASE BOTTOM.
5. CONCRETE COMPRESSIVE STRENGTH 4000 PSI MIN.
6. JOINT SEALANT SHALL BE SYNTHETIC RUBBER GASKET THAT COMPLIES W/ C-443 OR C-361.



5 PRECAST CONCRETE SINGLE GRATE (CB) CATCH BASIN & DOUBLE GRATE (DCB) DEEP SUMP CATCH BASIN
SCALE: N.T.S.

NOTES:

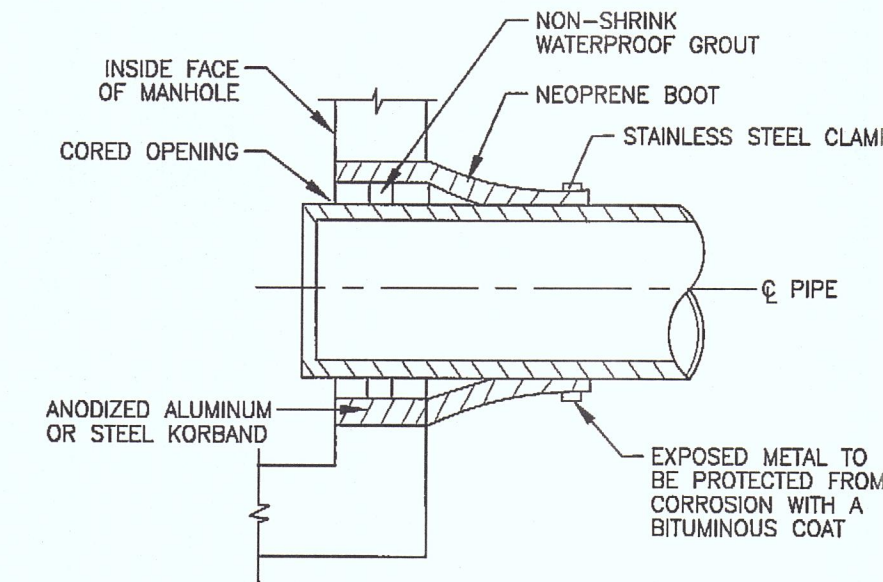
1. REINFORCED STEEL CONFORMS TO LATEST A185 SPEC. 0.12 SQ. IN./LINEAL FT. (0.15 SQ. IN. FOR 60" DIA) AND BASE BOTTOM.
2. CONCRETE COMPRESSIVE STRENGTH 4000 PSI MIN.
3. MANHOLE DESIGN CONFORMS TO LATEST ASTM C476 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
4. JOINT SEALANT SHALL BE SYNTHETIC RUBBER GASKET THAT COMPLIES W/ C-443 OR C-361.
5. BASE SECTION SHALL BE ONE FOUR MANHOLES.



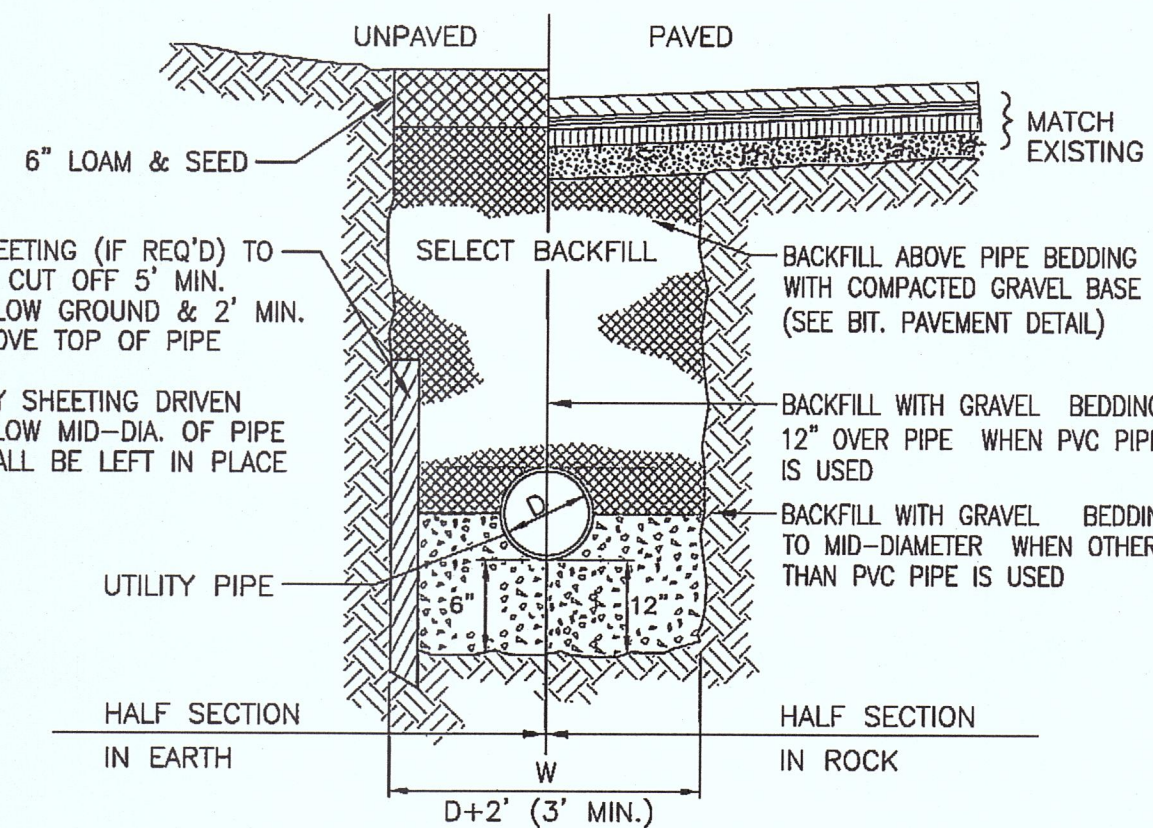
6 TYPICAL PRECAST CONCRETE 48" DIAMETER DRAIN MANHOLE (DMH) FOR PIPE DIAMETERS 24" OR LESS
SCALE: N.T.S.

NOTES:

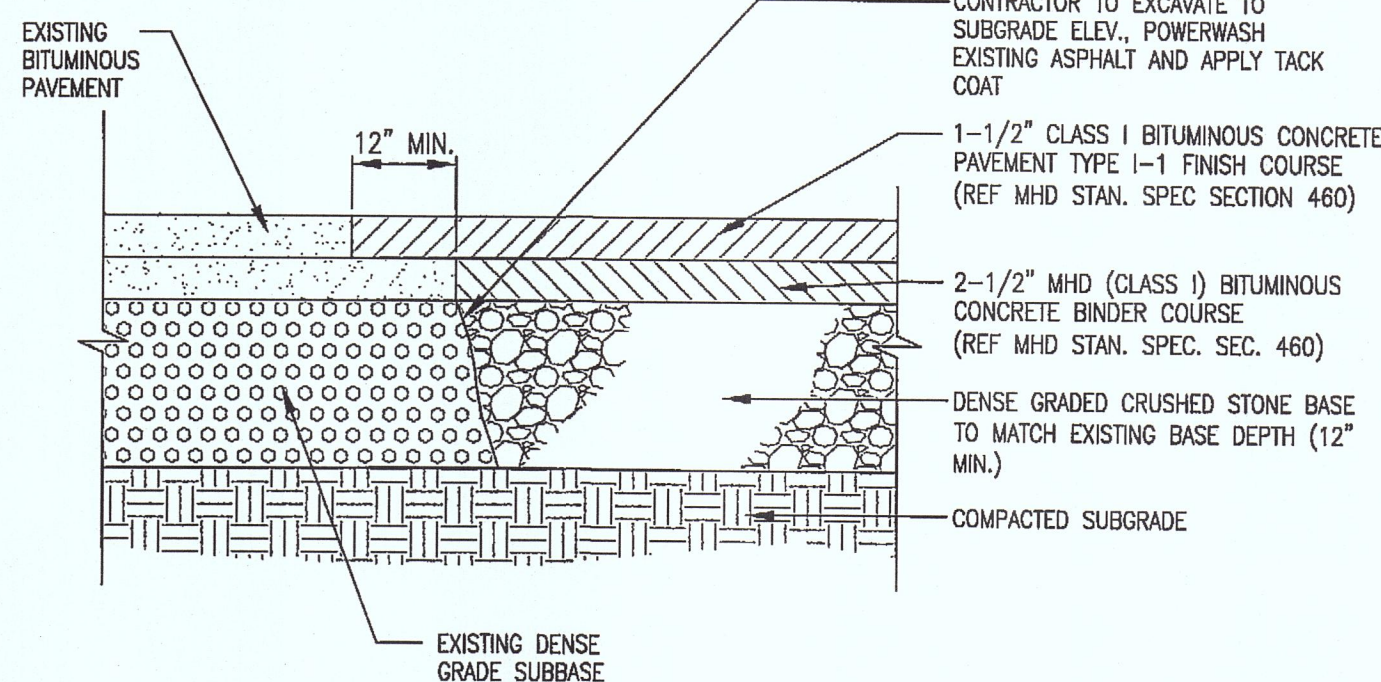
- 1) ALL SEWER APPURTENANCES SHALL BE CONSTRUCTED PER GRAFTON SEWER DEPARTMENT REGULATIONS AND SPECIFICATIONS.
- 2) ALL SEWER PIPES AND STRUCTURES SHALL BE TESTED PER GAN SEWER DEPARTMENT REQUIREMENTS AND ASSOCIATED FEES.



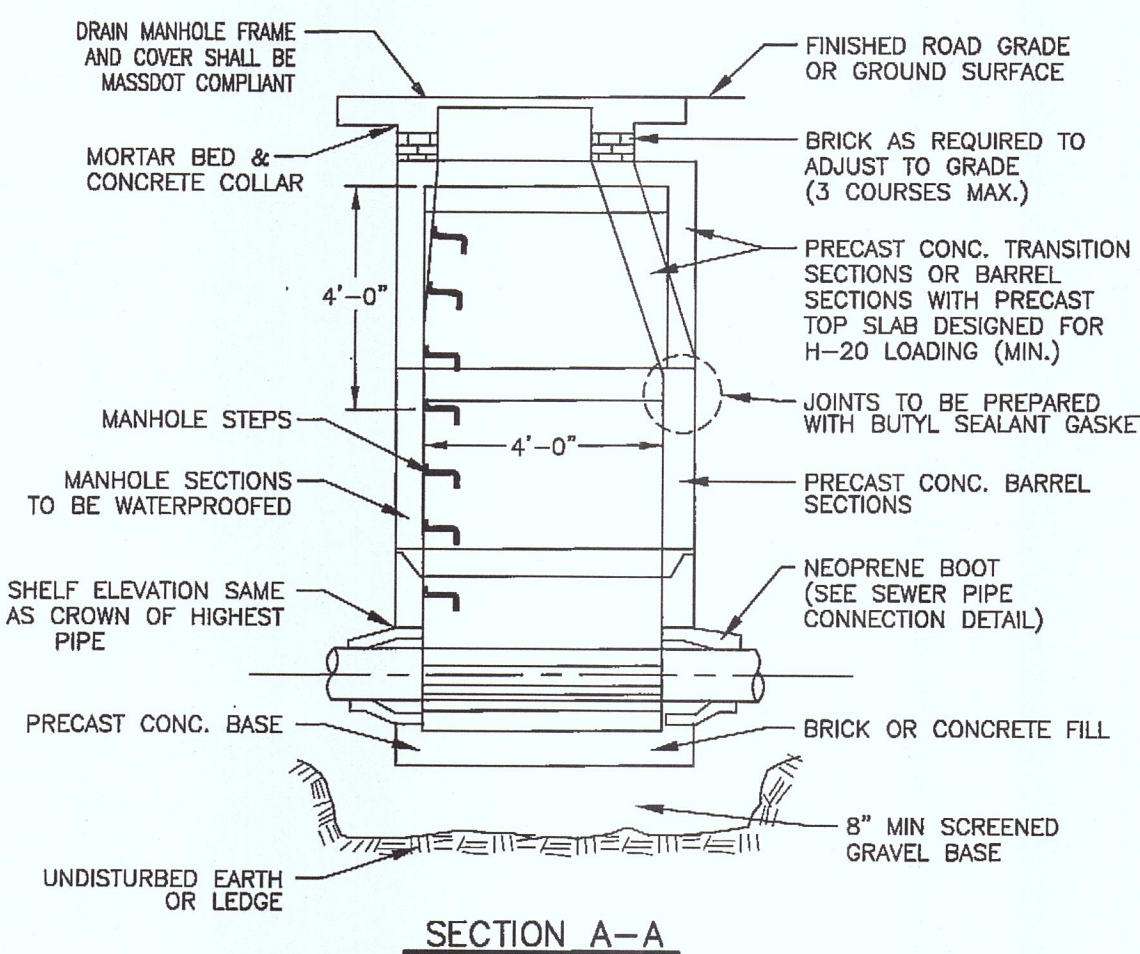
7 SEWER PIPE CONNECTION
SCALE: N.T.S.



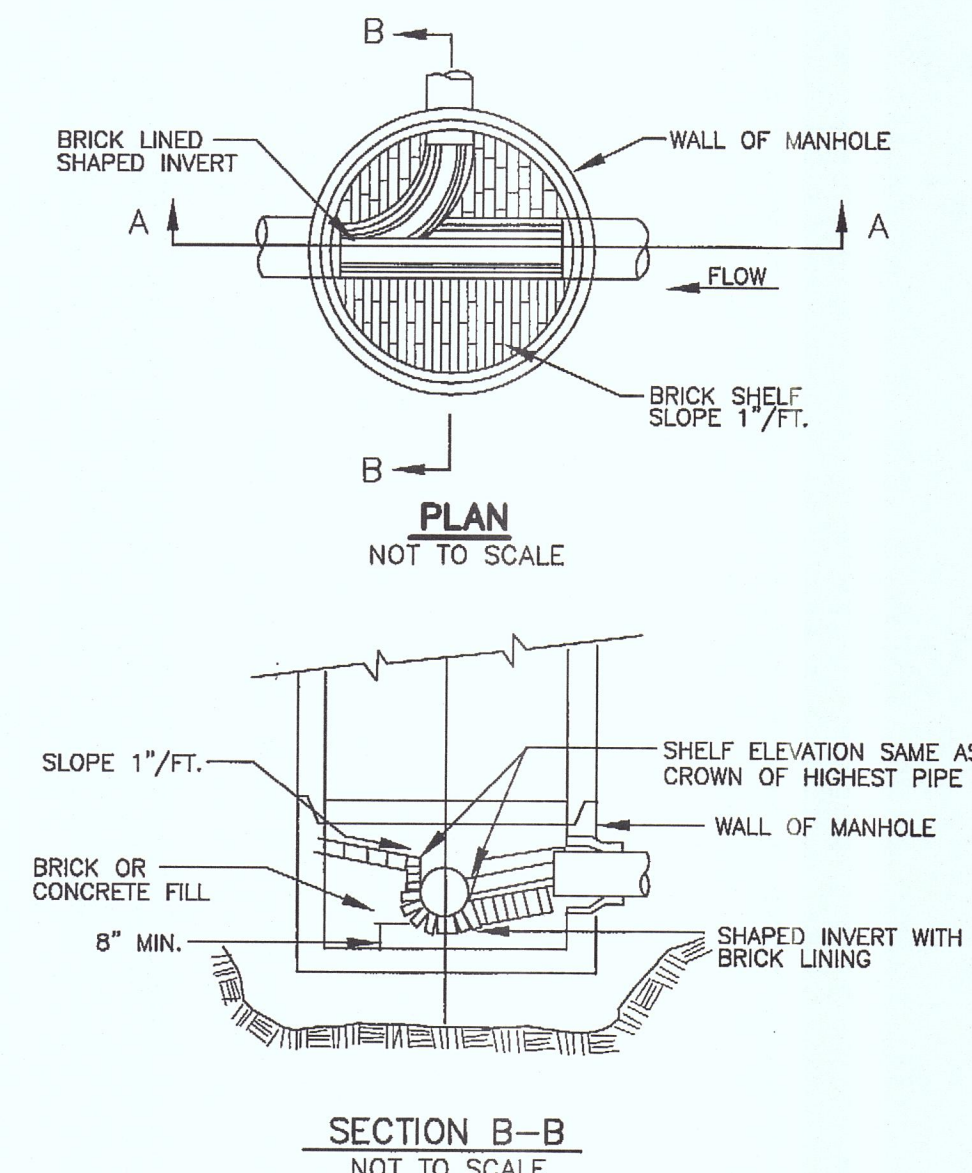
8 TYPICAL UTILITY TRENCH DETAIL
SCALE: N.T.S.



9 PAVEMENT JOINTING
SCALE: N.T.S.



10 TYPICAL PRECAST CONCRETE 48" DIAMETER SEWER MANHOLE (SMH)
SCALE: N.T.S.



ASE

Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

P.O. Box 312, 104 Mendon Street
Uxbridge, Massachusetts 01569
P: 508-278-3897 F: 508-278-2289

500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

APPROVAL BY THE TOWN OF GRAFTON ZONING BOARD OF APPEALS ACTING AS PLANNING BOARD IN ITS CAPACITY AS THE COMPREHENSIVE PERMIT GRANTING AUTHORITY UNDER MGL 40B.

CHAIR: *[Signature]* DATE: 12-28-17

MEMBER: *[Signature]*

MEMBER: *[Signature]*

MEMBER: *[Signature]*

THIS CERTIFIES THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE GRAFTON ZONING BOARD OF APPEALS HAS BEEN RECEIVED AND RECORDED ON OCTOBER 27, 2017 AT 8:54AM AND NO APPEAL WAS RECEIVED DURING THE 20 DAYS NEXT AFTER SUCH RECEIPT OF SAID NOTICE.

TOWN CLERK: *[Signature]* DATE: 1/18/18

ELMROCK ESTATES
A COMPREHENSIVE PERMIT PLAN

21 WHEELER ROAD &
106 BRIGHAM HILL ROAD
GRAFTON, MA 01536

FIELDSTONE REALTY, LLC
100 BRIGHAM HILL ROAD
GRAFTON, MA 01536

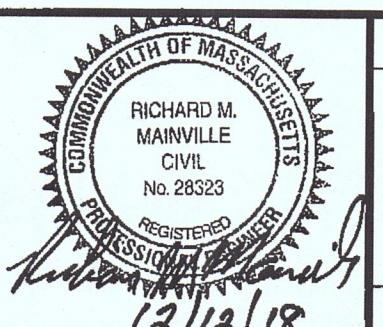
REVISIONS		
NO.	DATE	DESCRIPTION
1	2/28/17	REDUCED TO 32 LOTS, FULL DESIGN PLANS
2	4/10/17	PER GRAVES 3/15/17 REVIEW COMMENTS
3	7/24/17	PROPOSED 31 UNIT DESIGN
4	8/22/17	PER ZBA & REVIEW COMMENTS
5	8/20/18	PER COMPREHENSIVE PERMIT CONDITIONS
6	9/27/18	PER CONCOM COMMENTS
7	12/10/18	PER COMPREHENSIVE PERMIT CONDITIONS
CAD FILE: 2015-332_40B_31 units_R1-REV-BASINS.dwg		
DRAWN BY: TRB, SJO		
CHECKED BY: RMM, BJA		
DATE: AUGUST 30, 2016		
PROJECT NO.: 2015-332 (REF. 2011-273)		

PLAN BOOK 913 PLAN 4
SHEET 14 of 17

SHEET TITLE

CONSTRUCTION
DETAILS

SHEET 2 OF 5



DRAWING NO.

C-7.2

PLAN NO. L-4819